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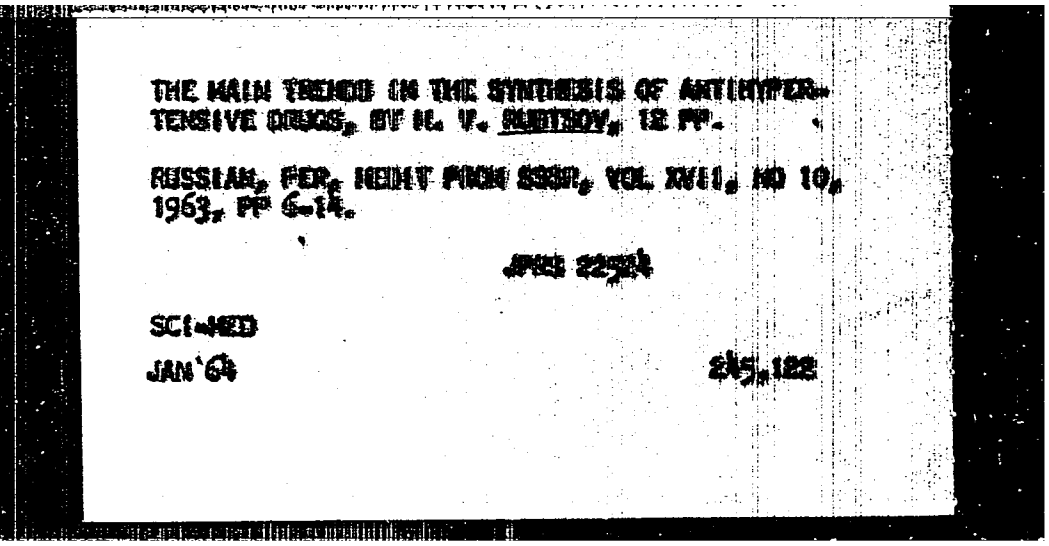

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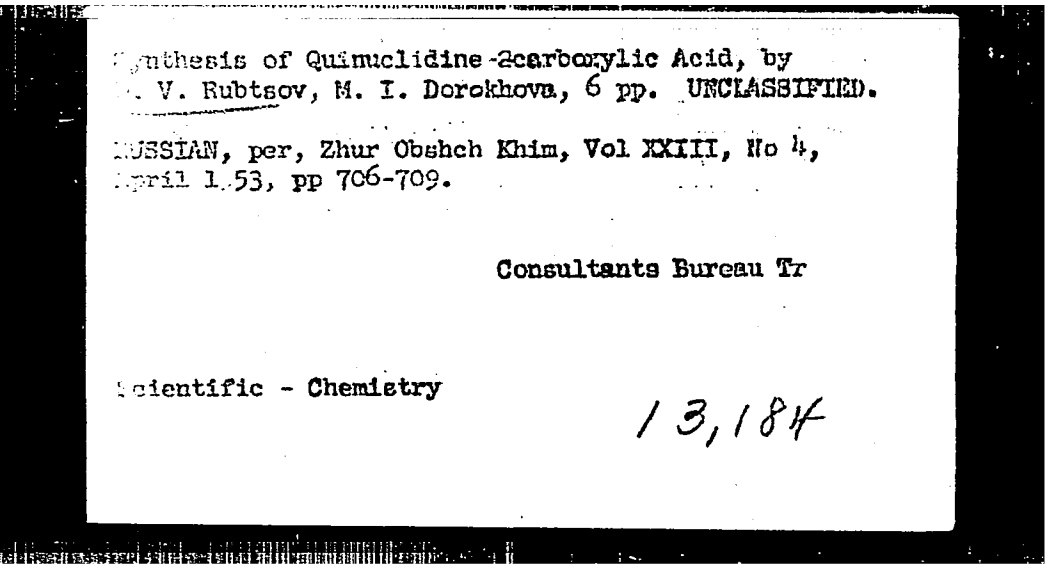

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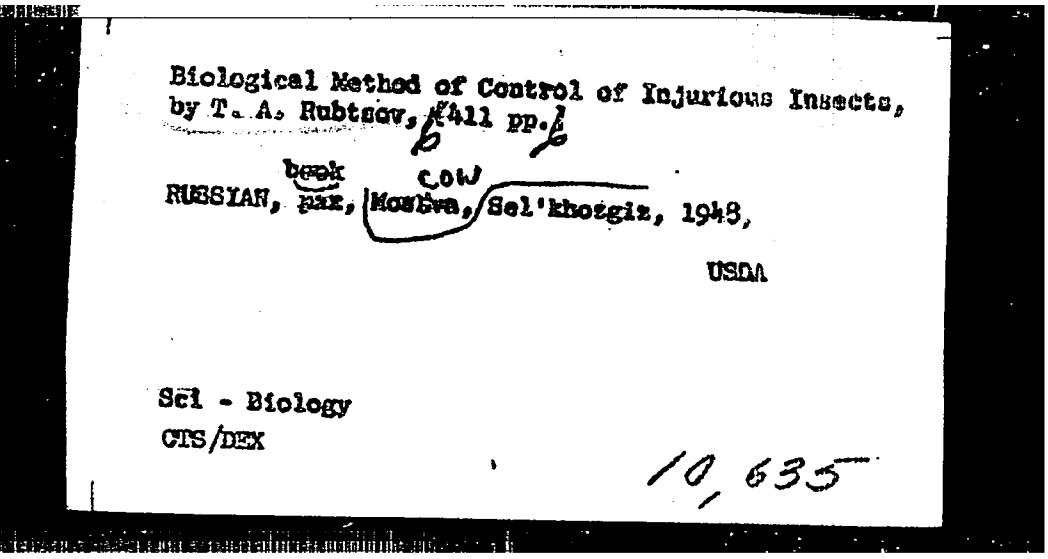

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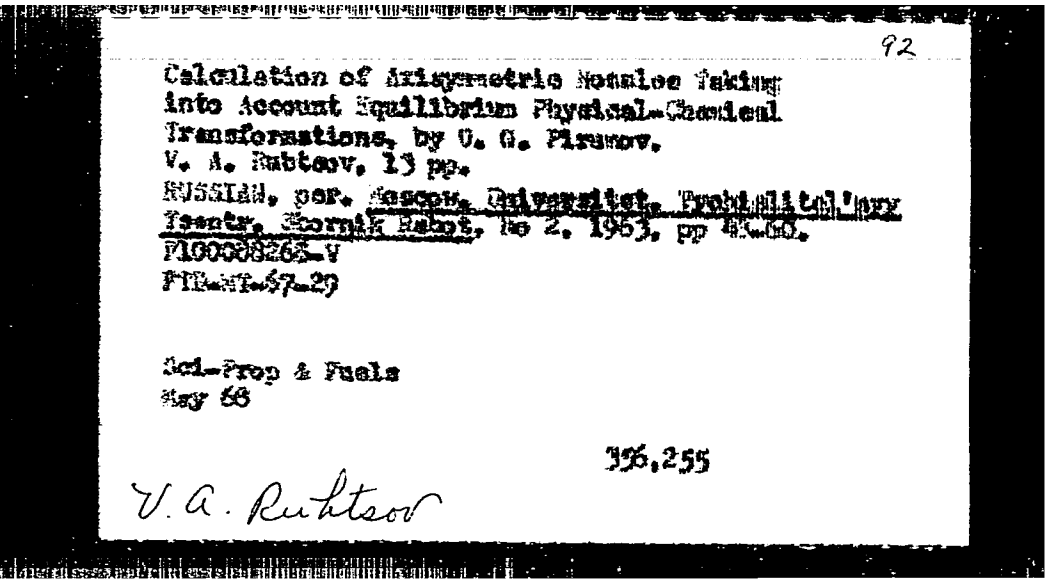

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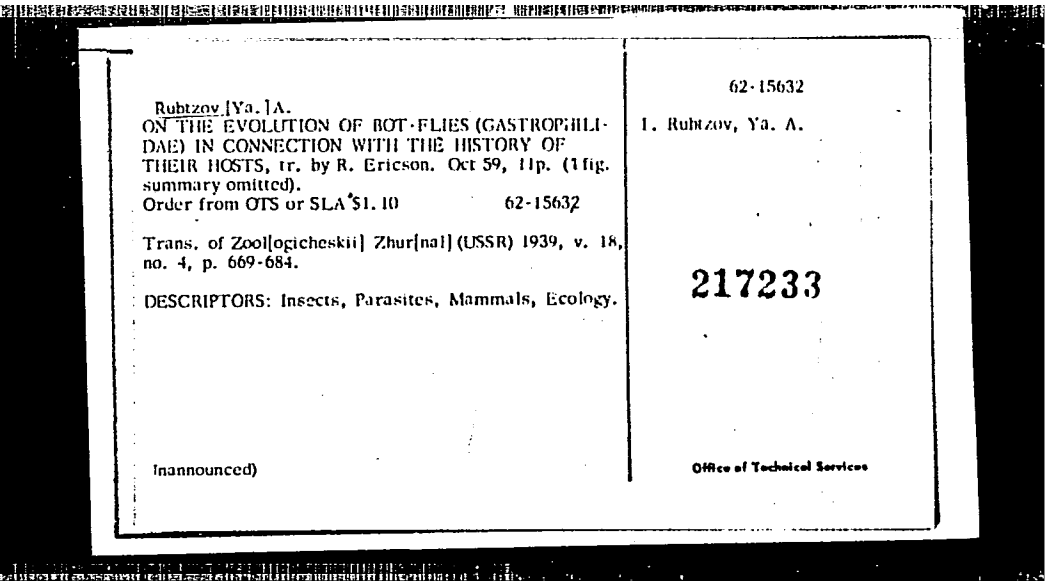

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DESCRIPTORS: Insects, Parasites, Mammals, Ecology.

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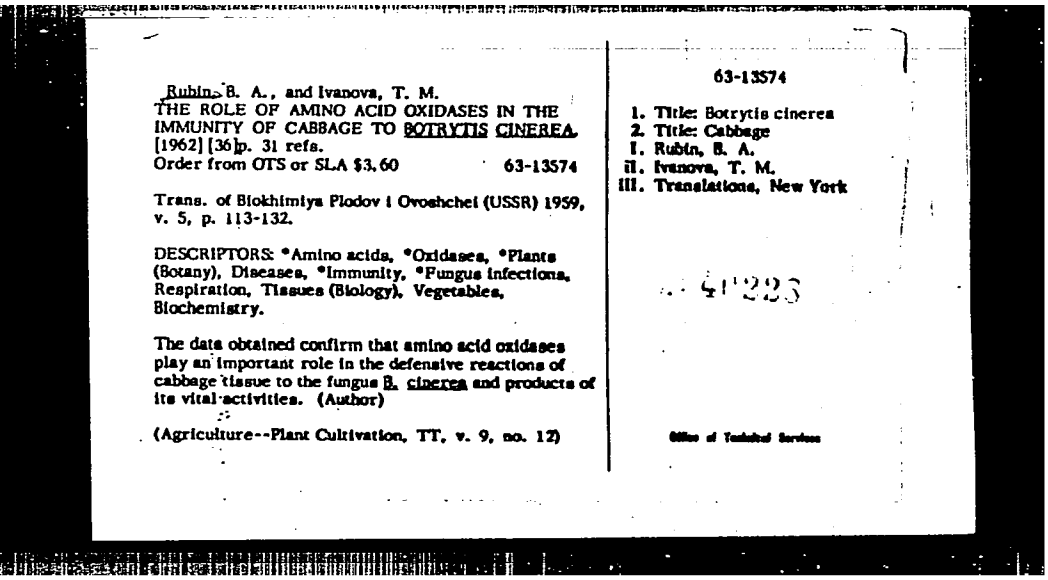

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Trans. of Biokhimiya Plodov i Ovoshchei (USSR) 1959, v. 5, p. 113-132.

DESCRIPTORS: *Amino acids, *Oxidases, *Plants (Botany), Diseases, *Immunity, *Fungus infections, Respiration, Tissues (Biology), Vegetables, Biochemistry.

The data obtained confirm that amino acid oxidases play an important role in the defensive reactions of cabbage tissue to the fungus B. cinerea and products of its vital activities. (Author)

(Agriculture--Plant Cultivation, TT, v. 9, no. 12)

63-13574

1. Title: Botrytis cinerea
2. Title: Cabbage
I. Rubin, B. A.
II. Ivanova, T. M.
III. Translations, New York

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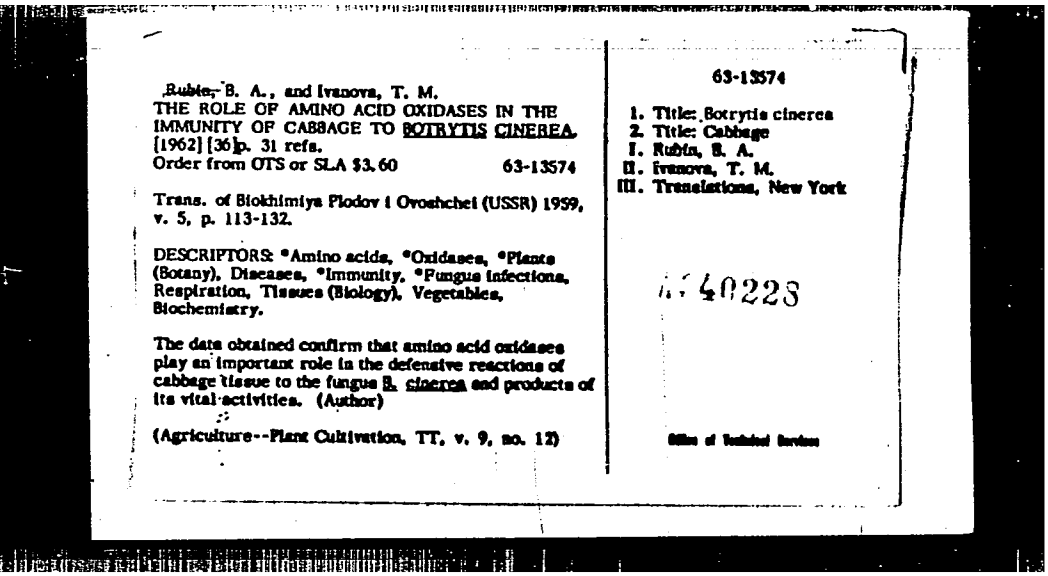

Rubin, B. A., and Ivanova, T. M.
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1. Title: Botrytis cinerea
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Order from OTS or SLA $1.10 63-13583

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1951, v. 79, no. 4, p. 637-638.

DESCRIPTORS: *Phenols, *Oxidases, Plants (Botany), Diseases, Tissues (Biology), *Cotton, *Fungus infections, Actinomyces, Resistance, Enzymes.

The increase in the content of polyphenols which is observed simultaneously with activation of the enzymes catalyzing their oxidation is an example of a defensive reaction which has been developed and intensified in (Agriculture--Plant Cultivation, TT, v. 9, no. 12)(over)

63-13583

1. Title: Verticillium albo-atrum
I. Rubin, B. A.
II. Volobueva, P.
III. Translations, New York

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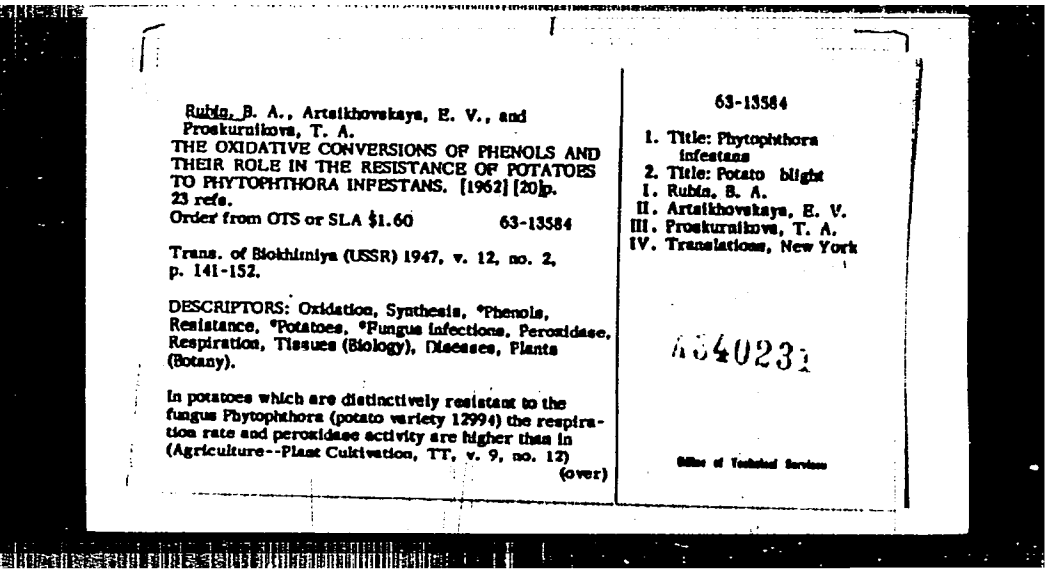

Rubin, B. A., Artsikhovskaya, E. V., and Proskurnikova, T. A.
THE OXIDATIVE CONVERSIONS OF PHENOLS AND THEIR ROLE IN THE RESISTANCE OF POTATOES TO PHYTOPHTHORA INFESTANS. [1962] [20]p. 23 refs.
Order from OTS or SLA $1.60 63-13584

Trans. of Biokhimiya (USSR) 1947, v. 12, no. 2, p. 141-152.

DESCRIPTORS: Oxidation, Synthesis, *Phenols, Resistance, *Potatoes, *Fungus infections, Peroxidase, Respiration, Tissues (Biology), Diseases, Plants (Botany).

In potatoes which are distinctively resistant to the fungus Phytophthora (potato variety 12994) the respiration rate and peroxidase activity are higher than in
(Agriculture--Plant Cultivation, TT, v. 9, no. 12)
(over)

63-13584

1. Title: Phytophthora infestans
2. Title: Potato blight
I. Rubin, B. A.
II. Artsikhovskaya, E. V.
III. Proskurnikova, T. A.
IV. Translations, New York

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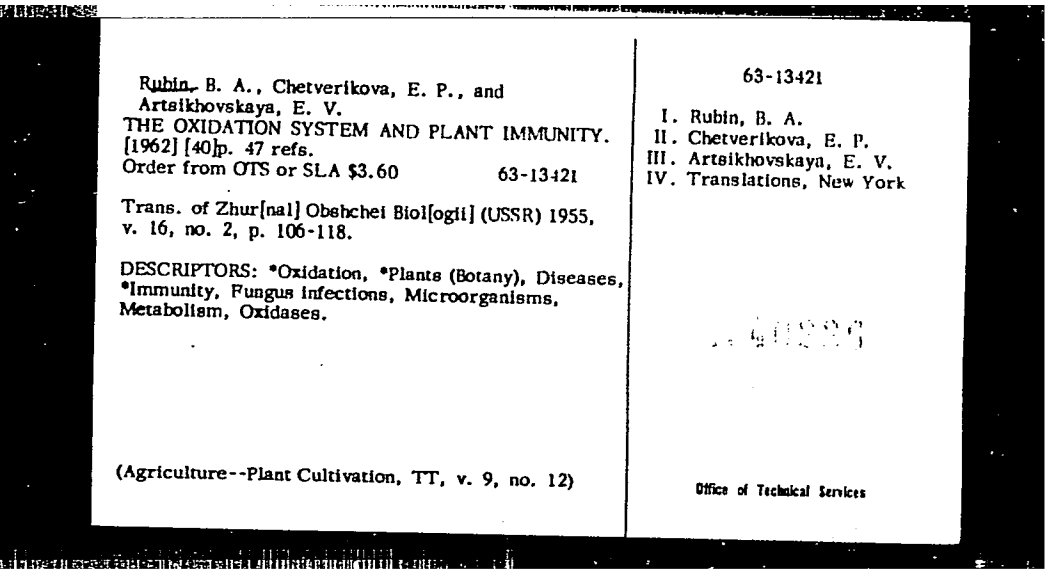

Rubin, B. A., Chetverikova, E. P., and Artsikhovskaya, E. V.
THE OXIDATION SYSTEM AND PLANT IMMUNITY. [1962] [40]p. 47 refs.
Order from OTS or SLA $3.60 63-13421

Trans. of Zhur[nal] Obshchei Biol[ogii] (USSR) 1955, v. 16, no. 2, p. 106-118.

DESCRIPTORS: *Oxidation, *Plants (Botany), Diseases, *Immunity, Fungus infections, Microorganisms, Metabolism, Oxidases.

(Agriculture--Plant Cultivation, TT, v. 9, no. 12)

63-13421

I. Rubin, B. A.
II. Chetverikova, E. P.
III. Artsikhovskaya, E. V.
IV. Translations, New York

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Rubin, B. A., and Ozeretskovskaya, O. L.
THE HEXOSE MONOPHOSPHATE RESPIRATORY PATHWAY IN POTATO TUBERS. [1962] [22]p. 22 refs. Order from OTS or SLA $2.60 63-13420

Trans. of Akad[emiya] Nauk SSSR. Izvest[iya. Seriya Biologicheskaya] 1959 [v. 24] no. 2, p. 257-264.

DESCRIPTORS: *Hexoses, Phosphates, *Phosphorylation, Dehydrogenases, Glucose, Enzymes, *Potatoes, Plants (Botany), Diseases, *Immunity, Respiration.

Potato tubers have an enzymatic system for apotomic oxidation. During the entire storage period glucose-6-phosphate and 6-phosphogluconate dehydrogenases show the same kind of changes in activity as does the general respiration rate. Apotomic oxidation was found in the mycelia of the pathogenic fungus Phytophthora infestans. When potato tubers are arti-
(Agriculture--Plant Cultivation, TT, v. 9, no. 12)
(over)

63-13420

I. Rubin, B. A.
II. Ozeretskovskaya, O. L.
III. Translations, New York

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